Service-Anleitung
Service Manual
Instructions de Service

CV 600 RC

Technische Daten (typische Werte)	**Specifications** (typical values)	**Caractéristiques techniques** (valeurs types)	**Dati tecnici** (valori tipici)	**CV 600 RC**
Ausgangsleistung Sinusleistung (8 Ω DIN 1 kHz) Musikleistung (8/4 Ω 1 kHz)	**Power output** RMS continuous power output (8 Ω DIN 1 kHz) music power (8/4 Ω 1 kHz)	**Puissance de sortie** Puissance sinus (8 ohms DIN 1 kHz) Puissance musique (8/4 ohms 1 kHz)	**Potenza d'uscita** capacità sinusoidale (8 ohm DIN 1 kHz) Potenza musicale (8/4 ohm 1 kHz)	 2×50 W 2×70 W
Leistungsbandbreite	**Frequency response**	**Bande de puissance**	**Banda di potenza**	
Klirrfaktor bei 2/3 Leistung (1 kHz)	**Harmonic distortion** at 2/3 power (1 kHz)	**Distorsion** à 2/3 de puissance (1 kHz)	**Distorsione armonica** a 2/3 de rendimento (1 kHz)	< 0,01 %
Fremdspannungsabstand bezogen auf Nennleistung Phono-Eingang Hochpegel-Eingänge (CD, VIDEO, TAPE, TUNER)	**Signal/noise ratio** referred to rated power output Phono input High-level inputs (CD, VIDEO, TAPE, TUNER)	**Rapport non pondéré son/bruit** par rapport à la puissance nominale Entrée Phono Entrées haut niveau (CD, VIDEO, TAPE, TUNER)	**Selettivitá** riferita alla potenza nominale ingresso phono ingressi ad alte impedenze (CD, VIDEO, TAPE, TUNER)	 70 dB 90 dB
Übersprechdämpfung	**Crosstalk attenuation**	**Diaphonie**	**Diafonia**	80 dB
Eingänge CD, VIDEO, TAPE, TUNER PHONO	**Inputs** CD, VIDEO, TAPE, TUNER PHONO	**Entrées** CD, VIDEO, TAPE, TUNER PHONO	**Ingressi** CD, VIDEO, TAPE, TUNER PHONO	 200 mV/47 kΩ 2,5 mV/47 kΩ
Ausgänge Druckklemmen für zwei Lautsprecherpaare 1-Koaxialbuchse ¼ inch für Kopfhörer TAPE 1/TAPE 2	**Outputs** Clamping terminals for two speaker pairs 1 coaxial jack, ¼ inch, for headphones TAPE 1/TAPE 2	**Sorties** Bornes à pression pour deux paires de haut-parleurs 1 prise coaxiale ¼" pour écouteurs TAPE 1/TAPE 2	**Uscite** morsetti di pressione per due coppie di diffusori 1 presa coassiale ¼" per cuffia TAPE 1/TAPE 2	 8–16 Ohm
Leistungsaufnahme (maximal)	**Power input** (maximum)	**Consommation de courant** (maximum)	**Potenza assorbita** (massimo)	 240 Watt
Netzspannung Model Europa Model USA/Kanada	**Mains voltage** European model US/Canadian model	**Voltage secteur** Modèle Europe Modèle USA/Canada	**Tensione di rete** modello Europa modello Stati Uniti/Canada	 230 V/50 Hz 115 V/60 Hz
Maße (Breite × Höhe × Tiefe)	**Dimensions** (width × height × depth)	**Dimensions** (largeur × hauteur × profondeur)	**Dimensioni** (larghezza × altezza × profondità)	 440×122×245 mm

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921 669 1092

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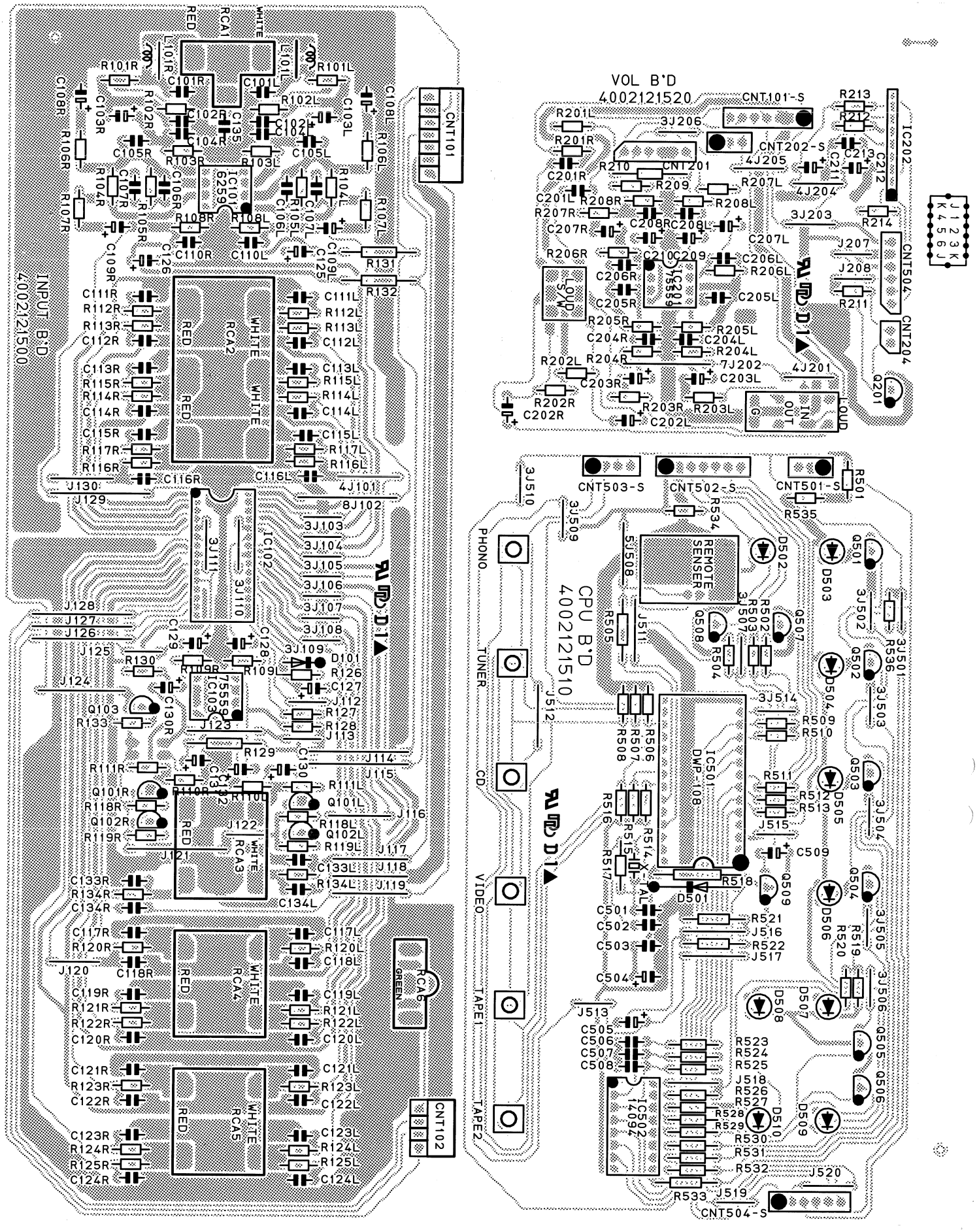
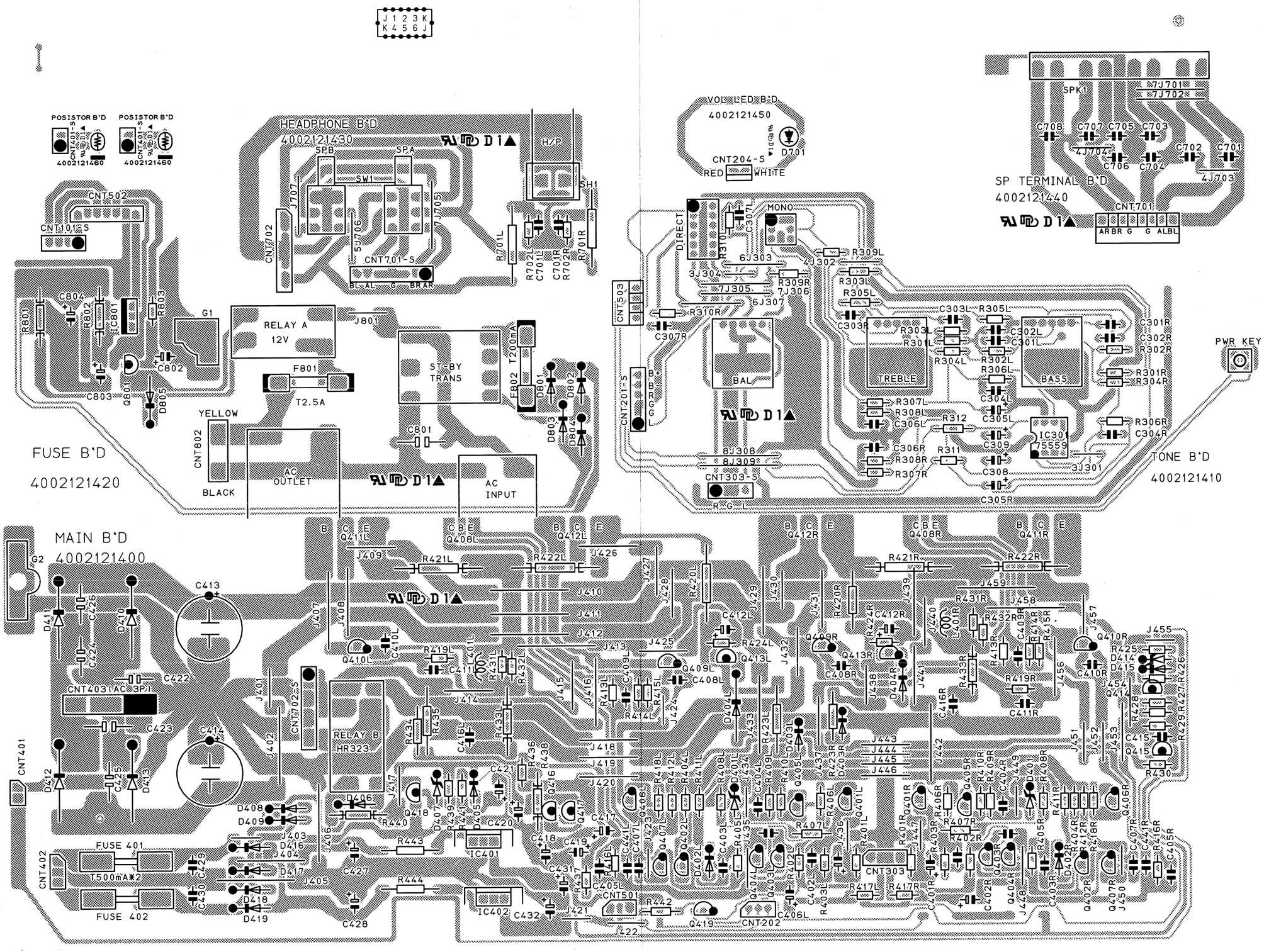

INPUT B'D
400212150O
VOL B'D
4002121520
CPU B'D
400212151O
CNT101
CNT101-S
CNT102
CNT201
CNT202-S
CNT204
CNT501-S
CNT502-S
CNT503-S
CNT504
CNT504-S
IC101
IC102
IC103
IC201
IC202
IC501
IC502
RCA1
RCA2
RCA3
RCA4
RCA5
RCA6
REMOTE SENSER
LOUD SW
PHONO
TUNER
CD
VIDEO
TAPE1
TAPE2
RED
WHITE
GREEN


J 1 2 3 K
K 4 5 6 J
POSISTOR B'D
4002121460
HEADPHONE B'D
4002121430
H/P
SP.B
SP.A
SW1
SH1
CNT502
CNT101-S
CNT702
CNT701-S
BL AL G BR AR
R701L
R702L
C701L
C701R
R702R
R701R
J707
J705
5J706
7J705
R801
C804
R802
IC801
R803
G1
C803
C802
G801
D805
RELAY A
12V
J801
F801
T2.5A
ST-BY
TRANS
T200mA
D801
D802
D803
D804
C801
FUSE B'D
4002121420
YELLOW
CNT802
BLACK
AC
OUTLET
AC
INPUT
VOL LED B'D
4002121450
CNT204-S
RED
WHITE
D701
SP TERMINAL B'D
4002121440
SPK1
7J701
7J702
C708
C707
C705
C703
4J704
C706
C704
C702
C701
4J703
CNT701
AR BR G G AL BL
DIRECT
R310L
C307L
MONO
6J303
3J304
7J302
R309L
R309R
7J305
7J306
6J307
R303L
R305L
CNT503
R310R
C307R
C303L
R305L
C303R
R303R
R301R
C302L
C301L
C301R
C302R
R302R
R304L
R302L
R306L
PWR KEY
CNT201-S
BAL
TREBLE
BASS
R307L
R308L
C306L
R312
C304L
C305L
R306R
C304R
C306R
R311
C309
IC301
75559
R308R
R307R
C308
3J301
8J308
8J309
CNT303-S
C305R
TONE B'D
4002121410
MAIN B'D
4002121400
G2
C413
D411
D410
C426
C424
C422
CNT403 (AC 3P)
C423
C414
CNT401
D412
C425
D413
CNT702-S
J401
J402
RELAY B
HR323
R434
R435
C416L
R436
R438
C421
C416R
J403
D408
D409
D416
D404
D417
D418
D419
FUSE 401
T500mA*2
FUSE 402
CNT402
C429
C430
J405
J406
D406
Q418
R440
C407L
R439L
R441L
D405L
C420
IC401
R443
C427
C428
R444
IC402
C432
J421
J422
C418
C419
C437
C405L
CNT501
R442
Q419
CNT202
C406L
Q411L
Q408L
Q412L
Q412R
Q408R
Q411R
J409
R421L
R422L
J426
J427
J428
J429
J430
J431
R421R
R422R
J439
J459
J458
J410
J411
J412
J413
J425
R420L
R420R
C412L
C412R
R424L
R424R
Q409R
Q413R
C408R
D407R
J438
J440
J441
R431L
R431R
L401R
R432R
C409R
R413R
R415R
J457
J455
Q410R
R425
D414
D415
J454
Q414
R428
R427
R426
R429
R430
C411R
C410R
J456
R419R
C416R
J451
J452
J453
C415
R415
J443
J444
J445
J446
J442
J433
J434
J435
J436
J437
R423L
R423R
D403L
D403R
R410L
R410R
C409L
C408L
Q409L
Q413L
Q410L
C410L
R419L
C411L
R431L
R432L
R433L
R435L
R414L
R414R
R418L
R418R
C404L
C404R
R409L
R409R
R408L
R408R
Q405L
Q405R
Q406L
Q406R
Q407L
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Q403L
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R402L
R402R
R401L
R401R
R417L
R417R
R405L
R405R
R404L
R404R
R412L
R412R
C407R
C405R
C406R
C403R
C402R
C401R
D401L
D401R
D402L
D402R
D408L
D408R
D409L
D409R
C441L
C441R
R416L
R416R
J447
J448
J449
J450

MAIN B'D
4002121400

CNT 303
FROM TONE B'D

CNT 702-S

CNT 702

CNT 701-S

CNT 701 SPTERMI NAL B'D 4002121440

SP A

SP B

SPKR A

SPKR B

AL

AGL

AGR

AR

BL

BGL

BGR

BR

H·P B'D
4002121430

RELAY B
HR 323

CNT403

CNT802

AC 230V /50Hz

RELAY A 12V

POWER TRANS
2828083101

FUSE B'D
4002121420

TO INPUT B'D CNT102-S

FROM CPU B'D CNT502

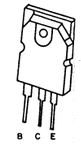
FROM CPU B'D
CNT501

FROM INPUT B'D
CNT202

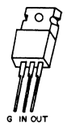
CNT402

COMMANDER B'D 4005113300

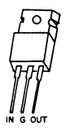
IC901 UPD61226-002



B C E
2SA1490
2SC3854



G IN OUT
MC 7918



IN G OUT
GD 7818

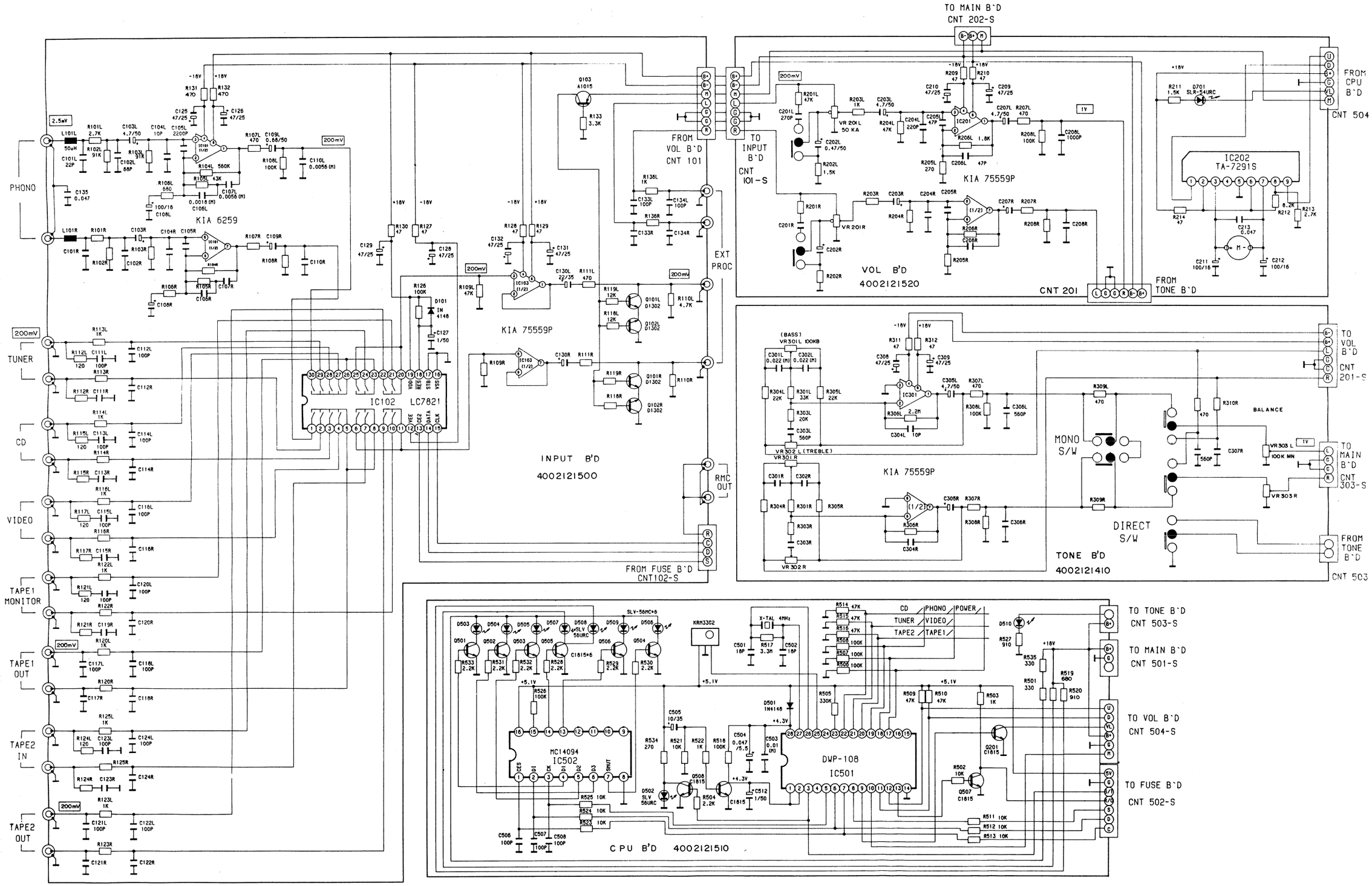
B C E
KTA 949
KTC 2229
KTA 965
KTC 2235

B C E
KTA 1015
KTC 1815
KTC 2240
KTD 1302S

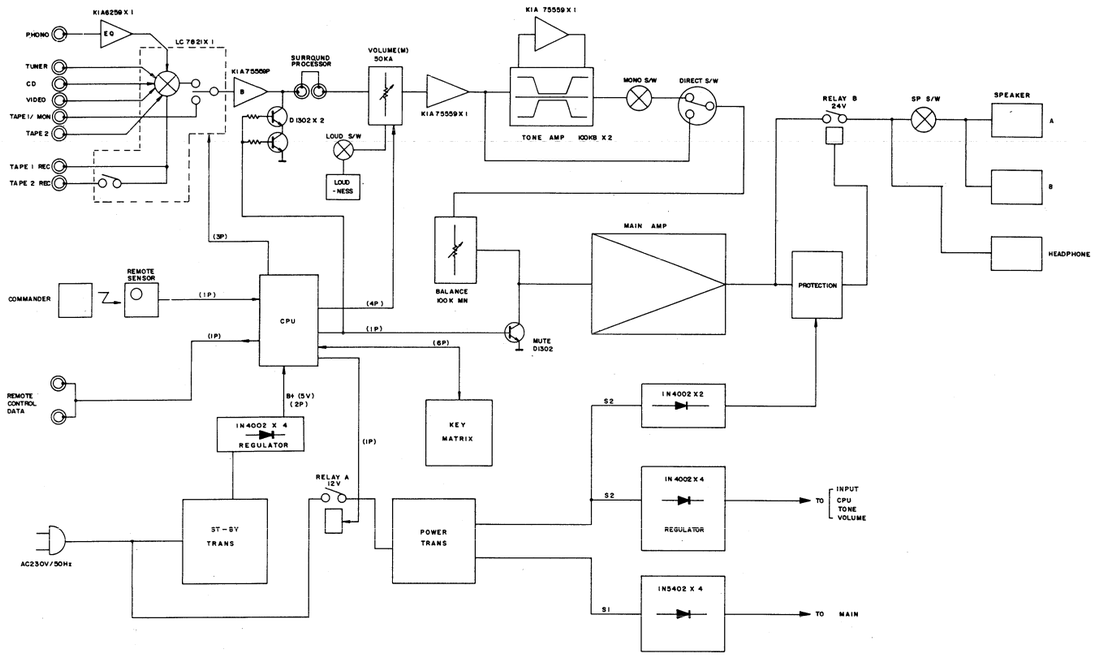
C B E
MPSA05
MPSA55

-NOTES 1. Resistance values are indicated in ohms unless otherwise specified (K=1,000 M=1,000,000)
2. Capacitance values are shown in microfarads unless otherwise noted (P=micro-micro farads.)

CAUTION : Safety precautions to be followed during servicing
1) Since those parts marked with ⚠ are critical parts for safety use the one described parts list.
2) Before returning the receiver to the customer make appropriate leakage current or resistance measurements to determine that exposed parts are properly insulated from the supply circuit.


TO MAIN B`D
CNT 202-S
FROM
CPU
B`D
CNT 504
TO
INPUT
B`D
CNT
101-S
FROM
VOL B`D
CNT 101
EXT
PROC
IC202
TA-7291S
KIA 75559P
VOL B'D
4002121520
CNT 201
FROM
TONE B`D
PHONO
TUNER
CD
VIDEO
TAPE1
MONITOR
TAPE1
OUT
TAPE2
IN
TAPE2
OUT
KIA 6259
IC102 LC7821
KIA 75559P
INPUT B'D
4002121500
RMC
OUT
FROM FUSE B`D
CNT102-S
TO
VOL
B`D
CNT
201-S
BALANCE
MONO
S/W
DIRECT
S/W
TONE B'D
4002121410
TO
MAIN
B`D
CNT
303-S
FROM
TONE
B`D
CNT 503
TO TONE B`D
CNT 503-S
TO MAIN B`D
CNT 501-S
TO VOL B`D
CNT 504-S
TO FUSE B`D
CNT 502-S
MC14094
IC502
DWP-108
IC501
CPU B'D 4002121510

BLOCK DIAGRAM

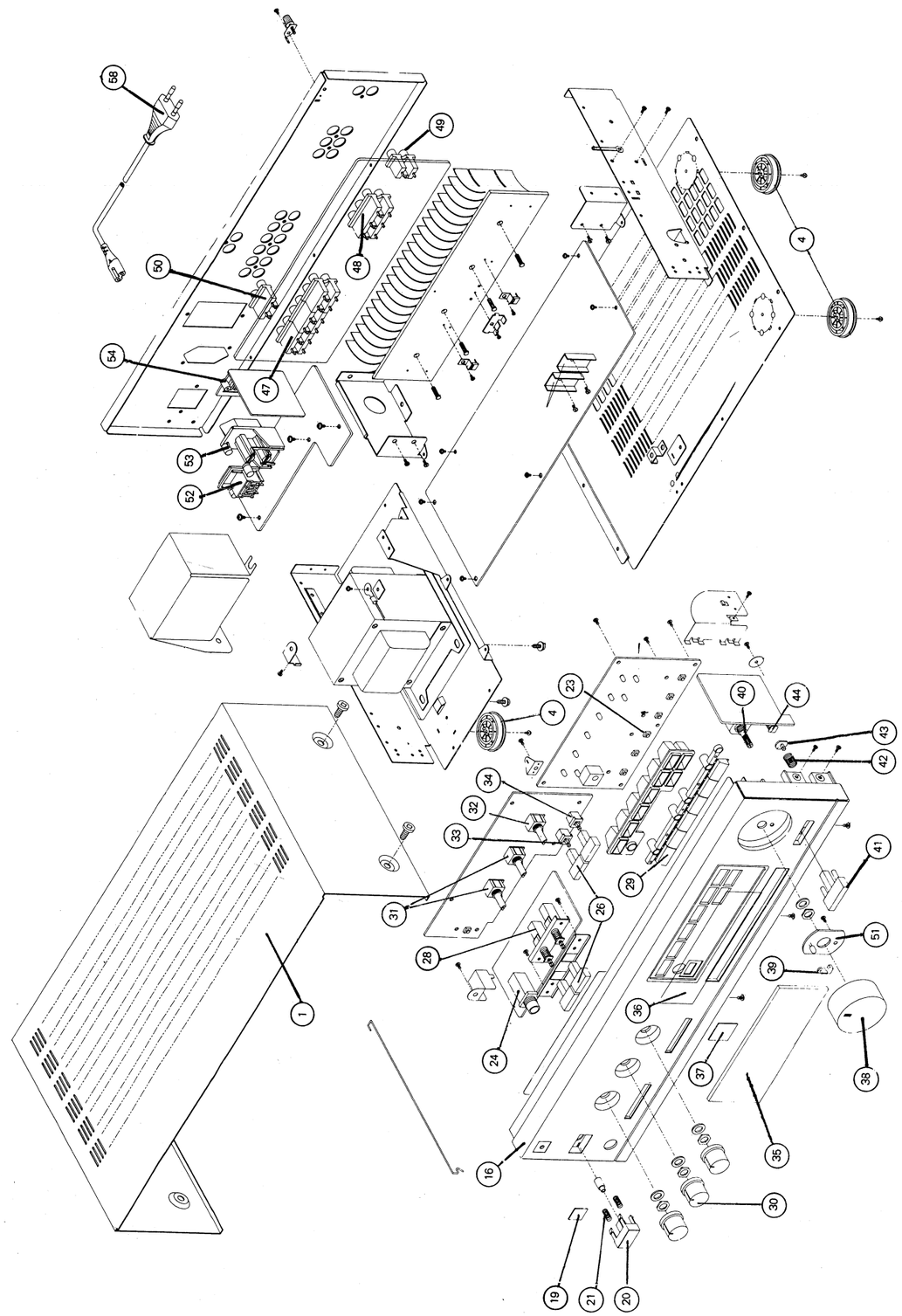


LC 7821 IC 102 (SWITCHING IC)

IN No.	Terminal	Description
1	PHONO	
2	TUNER	Input/output terminals of
3	CD	audio signal of left channel
4	VIDEO	
5	TAPE 1 OUTPUT	Control to the inside
6	DATA OUTPUT	analog switch at the serial
7	TAPE 2 INPUT	data
8	TAPE 1 OUTPUT	
9	TAPE 2 OUTPUT	
10	TAPE 1/MONITOR	
11	DATA OUTPUT	
12	Vee	Negative power supply terminal (– 18 V)
13	STROBE	Serial Control terminal
14	DATA	Connect terminal of
15	CLOCK	MC68HC0591 (DWP-108)
16	Vss	Ground terminal
17	S	
18	RES	Reset terminal When power is turned ON the Condition of the analog switch is not determined, but when this terminal is „L“ all analog switches are OFF.
19	VDD	Power Supply terminal (+ 18 V)
20	DATA OUTPUT	
21	TAPE 1/MONITOR	Input/Output terminals of
22	TAPE 2 OUTPUT	audio signal of right channel
23	TAPE 1 OUTPUT	
24	TAPE 2 INPUT	Control to the inside analog
25	DATA OUTPUT	switch at the serial date
26	TAPE 1 OUTPUT	
27	VIDEO	
28	CD	
29	TUNER	
30	PHONO	

IC 501)

No.	Terminal	Operating	Remark
1	Reset		
2	Reset		Q509
3	PA7 (Power on/off)	0V	Q508, Q801
4	PA6		
5	PA5 (Strobe)		IC502
6	PA4 (Data)		IC502, IC102
7	PA3 (Clock)		IC502, IC102
8	PA2 (Strobe)		IC102
9	PA1 (Vol. LED)		Q201
10	PA0 (Mute)		Q419, Q101, Q102
11	PB5 (Vol. Down)		IC202
12	PB6 (Vol. up)		IC202
13	PB7 (Remote out)		Q507
14	Vss		
15	PC7		
16	PC6		
17	PC5 (Key scan 3)		Key Matrix
18	PC4 (Key scan 2)		Key Matrix
19	PC3 (Key scan 1)		Key Matrix
20	PC2 (Key in 3)		Key Matrix
21	PC1 (Key in 2)		Key Matrix
22	PC0 (Key in 1)		Key Matrix
23	PD5 (IRQ)	5V	R505
24	NC		
25	PD7 (Remocon in)		
26	X		OSC
27	EX		4MHz
28	VDD		

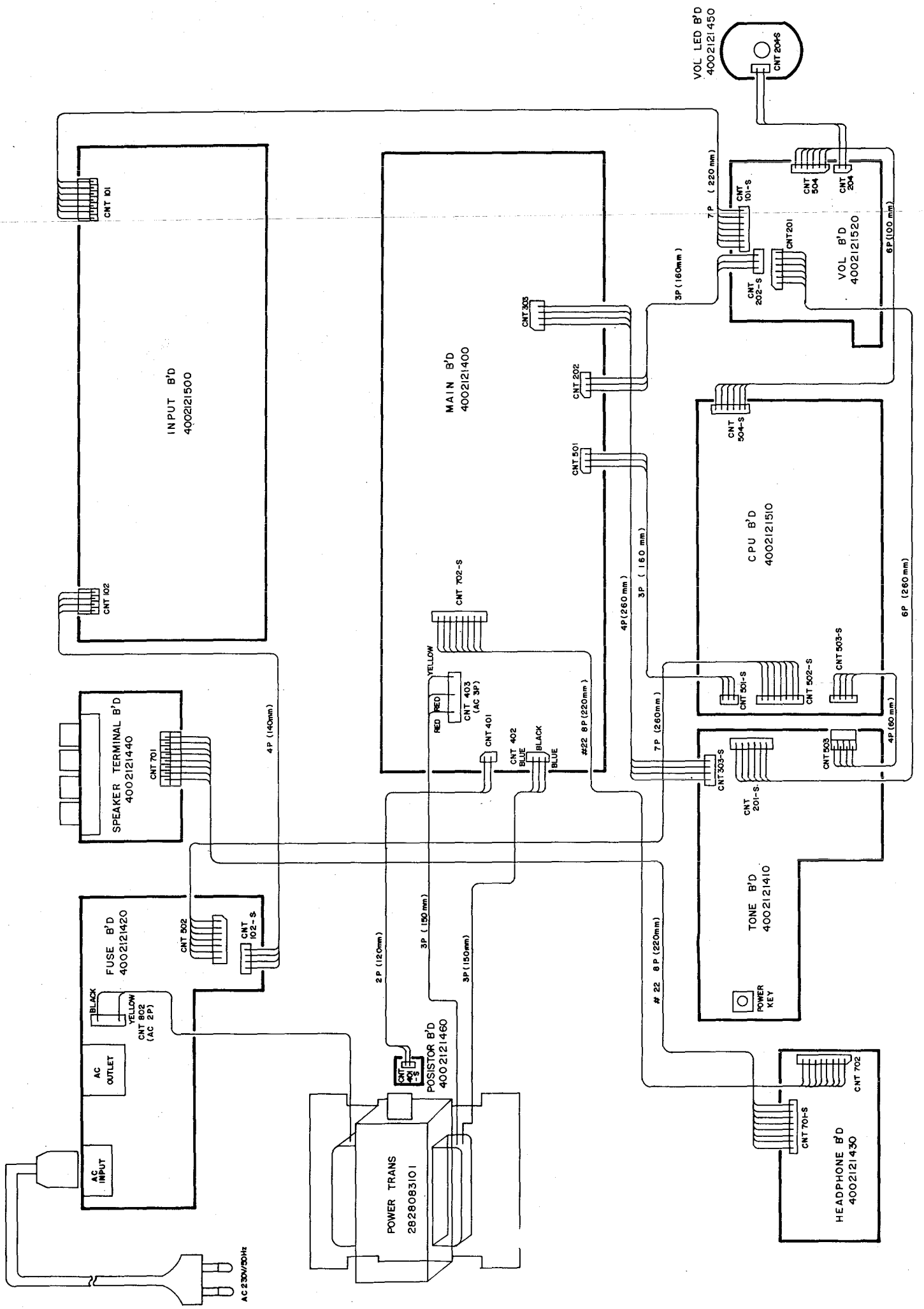


Ersatzteile · Replacement parts · Pièces détachées · CV 600

Pos.	Art.-Nr.	Bezeichnung
1	284320	Gehäuseblech
4	289241	Fuß
16	289242	Frontblende
19	283750	DUAL-Zeichen
20	289244	Taste POWER
21	286890	Druckfeder
22	289245	Taste INSERT
23	286901	Schalter
24	283705	Kopfhörerbuchse
26	289246	Taste
28	289247	Schalter 2-fach
29	289248	Taste FUNKTION
30	289249	Knopf
31	284664	Steller 100 K
32	283676	Steller
33	283675	Schalter
34	283674	Schalter
35	289251	Fenster
36	289253	Dämpfungsfolie
37	289254	Sensorfenster
38	289255	Knopf VOLUME
39	289256	Volume Leuchtstab
40	289257	Steller mit Motor
41	289258	Taste LOAD
42	287459	Feder
43	289259	Taste INSERT
44	289260	Schalter
47	283670	Cinchbuchse
48	289263	Cinchbuchse 6-fach
49	289264	Cinchbuchse 2-fach
50	289265	Cinchbuchse
51	289705	VOLUME-LED-Platte
52	289266	Netzbuchse
53	289267	Anschlußbuchse
54	289268	Lautsprecherklemmen
58	279596	Netzkabel Europa
		Grundplatte
C 413	284774	Elyt-Kond. 4700 UF/50 V
C 414	284774	Elyt-Kond. 4700 UF/50 V
L 401	286910	Spule 0,5 UH
D 401	282063	Diode DZ 12 BM
D 402	223906	Diode 1 N 4148
bis		
D 404	223906	Diode 1 N 4148
D 406	226501	Diode 1 N 4002
D 407	282063	Diode DZ 12 BM
D 408	226501	Diode 1 N 4002
D 409	226501	Diode 1 N 4002
D 410	282061	Diode 1 N 5402
bis		
D 413	282061	Diode 1 N 5402
D 414	282146	Diode DZ 8,2
D 415	223906	Diode 1 N 4148
D 416	226501	Diode 1 N 4002
bis		
D 419	226501	Diode 1 N 4002
IC 401	287676	IC GD 7818

Pos.	Art.-Nr.	Bezeichnung
IC 402	287677	IC MC 7918 CT
Relais B	289277	Relais
Q 401	286905	Transistor MPS A 56
Q 402	282077	Transistor KTA 1015 Y
Q 403	282052	Transistor KTC 2240 BL
Q 404	282052	Transistor KTC 2240 BL
Q 405	273293	Transistor 2 SC 1815 BL
Q 406	282053	Transistor KTC 2229 Y
Q 407	282054	Transistor KTA 949 Y
Q 408	286904	Transistor MPS A 06
Q 409	282094	Transistor KTC 2235 Y
Q 410	282095	Transistor KTA 965 Y
Q 411	287476	Transistor KTA 1490
Q 412	287475	Transistor KTC 3854
Q 413	286904	Transistor MPS A 06
bis		
Q 417	286904	Transistor MPS A 06
PT 1	289276	Netztrafo CV 600
		Eingangs-Platte
L 101	286911	Spule 50 UH
D 101	223906	Diode 1 N 4148
IC 101	289271	IC KIA 6259
IC 102	286912	IC LC 7821
IC 103	283707	IC KIA 75559 P
Q 101	282076	Transistor KTC 1815 Y
Q 102	282076	Transistor KTC 1815 Y
Q 103	268328	Transistor 2 SA 1015 Y
		UP-Platte
D 501	223906	Diode 1 N 4148
D 502	282084	LED SLV 56 URC
D 503	289278	LED SLV 56 MC
bis		
D 507	289278	LED SLV 56 MC
D 508	282084	LED SLV 56 URC
D 509	289278	LED SLV 56 MC
D 510	282084	LED SLV 56 URC
IC 501	289273	IC CPU DWP 108
IC 502	276039	IC MC 14094 BCP C-MOS
Q 501	282076	Transistor KTC 1815 Y
bis		
Q 509	282076	Transistor KTC 1815 Y
X-TAL	281411	Quartz 4 MHz
	289270	IR-Empfänger KRM 33
		VOLUME-Platte
IC 201	283707	IC KIA 75559 P
IC 202	287489	IC TA 7291 S
Q 201	282076	Transistor KTC 1815 Y
		Klangplatte
IC 301	283707	IC KIA 75559 P
		STAND BY-Platte
IC 801	283727	IC GD 7805
RELAIS A	289274	Relais
Q 801	286904	Transistor MPS A 06
TRANS	286909	Trafo STAND BY
		Kopfhörer-Platte
D 701	289458	LED SLR 54 URC (VOLUME-LED)
POSISTOR	282068	Kaltleiter

Änderungen vorbehalten! Subject to change! Sous réserve de modification!


VOL LED B'D
400212450
CNT 2046
INPUT B'D
400212500
CNT 101
CNT 102
MAIN B'D
400212400
CNT 303
CNT 202
CNT 501
CNT 702-S
CNT 403
(AC 3P)
CNT 401
CNT 402
YELLOW
RED
BLACK
BLUE
#22 8P (220mm)
4P (260 mm)
3P (160mm)
7P (220 mm)
CNT 101-S
CNT 504
CNT 204
CNT201
CNT 202-S
VOL B'D
400212520
6P (100 mm)
CNT 504-S
CPU B'D
400212510
3P (160 mm)
CNT 501-S
CNT 502-S
CNT 503-S
6P (260mm)
7P (260mm)
CNT303-S
CNT 503
4P (60 mm)
CNT 201-S
SPEAKER TERMINAL B'D
400212440
CNT 701
4P (140mm)
TONE B'D
400212410
POWER KEY
22 8P (220mm)
FUSE B'D
400212420
CNT 502
CNT 102-S
BLACK
YELLOW
CNT 802
(AC 2P)
AC OUTLET
AC INPUT
2P (120mm)
3P (150 mm)
3P (150mm)
POSISTOR B'D
400212460
CNT 401-S
POWER TRANS
28280831O1
CNT 702
CNT 701-S
HEADPHONE B'D
400212430
AC 230V/50Hz